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Return of the
Cliffhangers

Choosing
a Color
Camera

Earl Muntz:
A Madman
for All
Seasons

BERGER-BRAITHWAITE
VIDEOTESTS

Hitachi 5-inch Color TV
Sony Betamax VCR
RCA Projection TV Set



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Cable's New Season: Cultural Feast Or TV Dinner?

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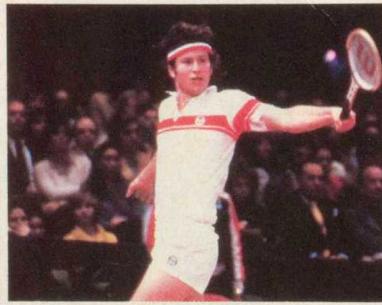
The Videotape Filing Cabinet by Roderick Woodcock

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Let Video Make Your Point by John Bishop

If you have a message you want heard, television can be a most persuasive ally.



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NEW Products



Fuji L-750 Beta Tape Has Beridox Particles

Fuji's L-750 is a 4½-hour, fine-grain Beta videocassette with the company's own "Beridox" particles. Fuji describes it as a "premium" cassette and the only third-generation Beta cassette available.

Price: n.a.

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'Missile Command' Game Now in Home Version

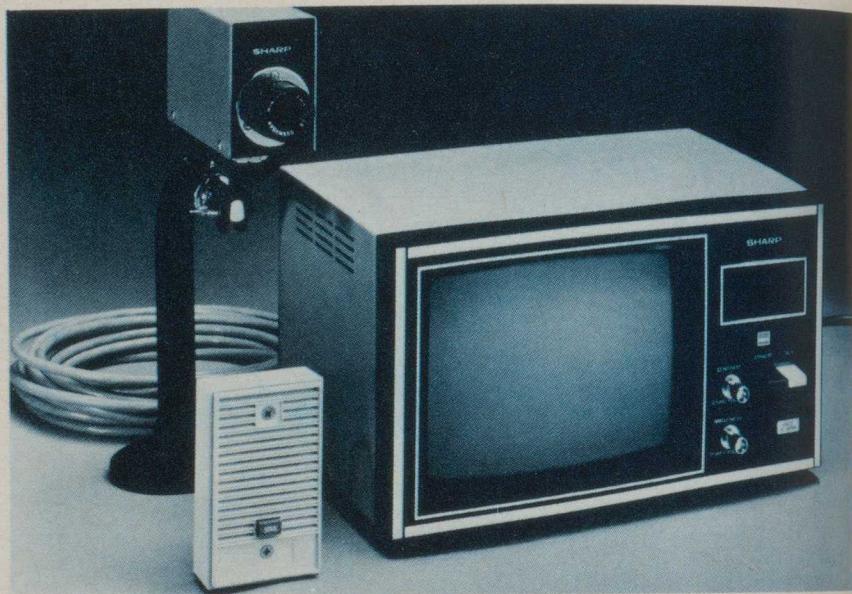
Atari now offers its "Missile Command" video game in a home-video version compatible with the Atari Video Computer System (VCS).

The cartridge is a one- or two-player game that uses joysticks and offers 34 game variations. The game involves defending an earth missile base and six surrounding cities against waves of enemy missiles. Other features include game-difficulty adjustment to correspond to player-skill levels, slow-game variations for young children, and screen-color changes that reduce eyestrain during extended play.

"Missile Command" is the 43rd Atari game cartridge; more are said to be under development.

Price: \$31.95.

To receive further manufacturer's information, circle No. 118 on the Reader Service Card.



Sharp CCTV System Has Camera, TV, Intercom

Once sold only to video professionals, Sharp's Model IT-25UA closed-circuit television system is now available to consumers. The system includes a compact camera, nine-inch monitor, and two-way intercom.

The two-pound camera comes with a standard 16mm f1.6 C-mount lens which adjusts to changing light systems. Unaffected by extremes of weather, voltage, or humidity, the unit comes with 33 feet of cable and works with a recommended illumination of 200 lux. The nine-ounce, two-way intercom comes with a talk button that activates the system for about 30

seconds and can be easily mounted on walls, ceilings, or doors. The weather-sealed speaker is round and 1 15/16 inches in diameter. The same speaker is in the nine-inch, 16-pound monitor, which works using 120 volts with power consumption of 32 watts in operation and eight watts in standby.

Optional accessories include extension cable, camera housing, camera selector to permit connection of up to three individual speakers on the monitor, wide-angle and telephoto lenses, and a motor-driven scanner.

Price: \$525.

To receive further manufacturer's information, circle No. 119 on the Reader Service Card.

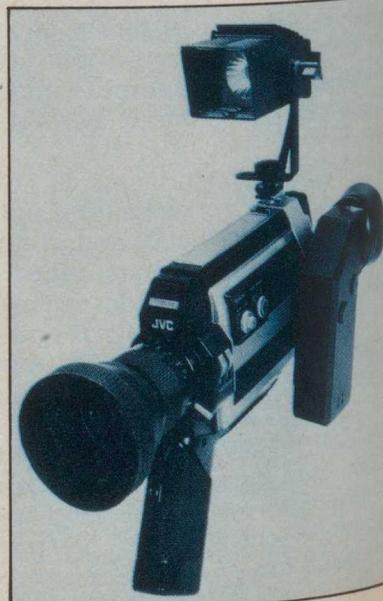
Air Flows Through Cool-Lux Movie Light

Cool-Lux's Mini-Cool video/movie light derives its name from its design, in which air flows through louvers and cools the light. The manufacturer says the unit is 97-percent efficient.

The 12-ounce unit is made of aircraft-grade aluminum and is coated with teflon. It can be used with normal 120-volt power and a 250-watt bulb or with 12 volts and a 100-watt bulb. Its light weight enables it to be mounted directly into a camera shoe and it comes with a light handle drilled to mount on 5/8-inch light stands, an L-swivel bracket, 250-watt bulb, and camera shoe. Other accessories available include light stand, gaffer grips, and clamps.

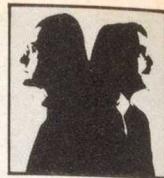
Price: \$130.

To receive further manufacturer's information, circle No. 120 on the Reader Service Card.



Arcade Alley

A Critical Look at Video Cartridge Games & Programs



by Bill Kunkel & Frank Laney, Jr.

Atari's 'Star Raiders' Scores a Direct Hit

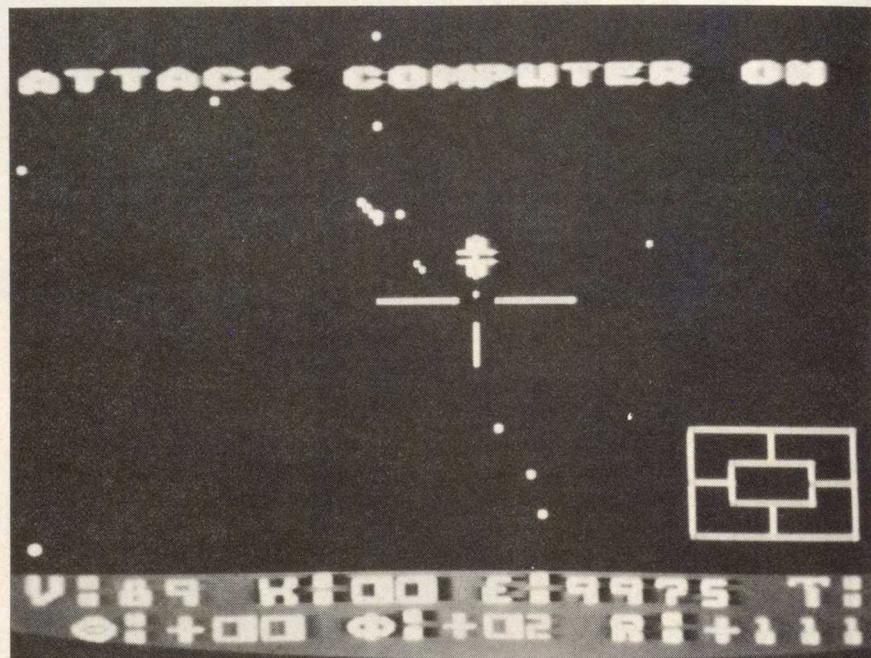
Ever since the idea of personal computers took hold in this country, crystal-ball gazers have predicted that everyone would soon own one of these miracle machines. Who, goes the oft-reiterated reasoning, could possibly resist a device capable of accurately figuring income taxes, generating and printing a mailing list, and even analyzing stock-price trends?

The question looks a lot different from our vantage point here in "Arcade Alley." As Shakespeare wrote in *Hamlet*, "The play's the thing." What will really sell the home computer is its potential as a sophisticated home entertainment center. Sure, estimating the gas bill and figuring mortgage payments are worthy tasks, but only superior electronic-game cartridges are likely to induce the typical wage-earner to loosen the purse-strings.

In that light, the introduction of "Star Raiders" for the Atari 400/800 microcomputers is a home-arcade event of the first magnitude. It ranks behind only the invention of "Pong" and the introduction of the first programmable video-game system in importance to our fast-growing hobby. "Star Raiders" (CXL 4011) is the greatest game ever put on a ROM cartridge. For many, this outstanding game will justify the purchase of the Atari 400—and that's why we're departing from our usual format to feature it at length this month.

Imagine striding across the command bridge of your very own starship. As the computer begins churning out data, you engage the protective shields and, using the galaxy-spanning display grid, chart a destination. After a perilous journey through the crazyquilt anti-universe of hyperspace, your ship arrives at the designated sector to battle Zylon invaders, or perhaps dock at a starbase to repair damage and take on a load of fuel. If this sounds like your favorite science-fiction story come true, it's high time you gave up your civilian status and enlisted with the growing legion of arcade addicts devoted to this landmark cartridge.

"Star Raiders" is hardly the usual head-to-head shooting-gallery-in-space. It is as stunning an advance over all previous interstellar electronic war games as "Progressive Breakout" (see last month's



'Spock! Activate the attack computer!' 'Roger.' 'My name isn't Roger.' 'Shut up, Captain.'

"Arcade Alley") was compared to good old "Pong." Atari has created a breathtaking adventure calculated to tax the strategic and tactical skills of even the most accomplished aracker. Although intended for solitaire play, it beautifully combines so many fascinating play elements that it can be enjoyed by teams of up to three gamers, each taking responsibility for one aspect of the mighty cruiser's operation in classic *Star Trek* fashion.

The executive or science officer, for example, takes charge of the Atari 400's keyboard, which functions as the craft's control console. A group of one-letter commands provide front or aft screen views; activate the shields, attack computer, tracking computer, or manual target selector; engage the hyperwarp engines; or fill the screen with the galactic chart or the long-range sector scan. The same team member could also regulate the twin-ion drive, which enables the ship to move within a sector, by using the control panel's 10 numeric keys. A second person could assume the role of pilot, wielding the joystick. This steers the ship and fires photon torpedoes at the Zylon marauders. Finally, a third gamer can be-

come Captain Kirk himself, barking orders from the command chair with cool efficiency and generally coordinating the actions of the entire team.

The "Star Raiders" program offers four graduated skill levels: Novice, Pilot, Warrior, and Commander. The first provides a painless introduction to the intricacies of "Star Raiders." It doesn't require the player to navigate through hyperspace and restrains the Zylons from returning fire during a battle. Once players achieve familiarity, it's time to progress to one of the three tougher versions. Warning: don't try the Commander-level game until you've acquired lots of skill and experience. A tenderfoot quickly ends up captaining a lifeless hulk drifting aimlessly through the void in the most challenging variant.

The control-panel read-outs, flashed on screen with front and aft screen views, furnish a wealth of information. They tell at a glance the ship's velocity, the number of kills, the amount of energy remaining, and the range and coordinates of any enemy target in same same sector. The attack computer (when operational) pro-

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Arcade Alley

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vides cross-hairs and lock-on for combat situations, while the tracking computer automatically switches between the front and aft screens, depending on the Zylons' attack route.

The galactic chart is another valuable resource. As long as the sub-space radio functions, it shows the positions of both friendly starbases and the Zylon forces seeking to encircle and destroy them. And by moving the chart's cursor to the desired sector, the ship's captain picks hyperspace destinations. In addition, the galactic display indicates total elapsed time, the energy cost of any plotted hyper-jump, ship damage, and the exact number of Zylon craft in any given sector. The long-range sector scan is yet another useful display. It consists of an overview of the sector in which the player's ship is located. After completion of the hyperspace jaunt, it makes finding the enemy within the sector much easier.

The Zylons have three kinds of war vessels: fighters, cruisers, and basestars. The last have shields and torpedoes and can only be destroyed with a close-range attack. Once the Zylons surround a friendly starbase, the player has approximately one minute to save it by eliminating one of the besieging squadrons.

The old saw about a good offense being the best defense certainly applies to tactical (ship-to-ship) combat. Sectors are vast, and the arceder can waste time and fuel waiting around for the Zylons to attack. Once the attack computer pinpoints a target's coordinates, check the range. If it's more than 100 centrons, gun those twin-ion engines and chase down the quarry! Destroy the foe from as great a

distance as possible, because your defensive shields are more fragile at close range. And keep the ship moving; nothing is easier for those pesky Zylons to hit than a stationary target.

The documentation, a glossy 12-page booklet with profuse illustrations, is excellent. It's full of detailed information about everything except the crucial docking maneuver, about which the instructions are unsettlingly vague.

To clear up any ambiguities—and perhaps save buyers a week or two of frustration—here's a step-by-step drill for successfully linking up with a starbase: After arriving in the proper sector, steer the ship so that horizontal and vertical coordinates are at zero and the starbase is

directly ahead. Employ the ion engines to approach within a range of one centron; then immediately hit the "O" key to cut velocity to zero. (Pushing "1" or "2," which also reduce speed to zero, has no effect.) When the starbase is lined up in the cross-hairs of the forward screen, the message "Orbit Established" appears. At this point a tiny shuttle-craft, complete with fuel and robot-repair crew, moves out to your craft from the station. A "Transfer Complete" message signals that it's all right for your ship to return to its mission of stalking Zylons and protecting starbases from alien wrath.

It is impossible to praise "Star Raiders" too highly. The graphics are breathtaking, the space combat has a realistic feel, and

each game is refreshingly different from every other. The computer even grades players on their work as defenders of the civilized universe after completion of each game. More than any computer game we've seen so far, "Star Raiders" fulfills the potential of mechanical brains to entertain us puny humans. Its debut marks the beginning of a new era in electronic gaming.



TV Den

continued from page 22

from Radio Shack (part no. 275-1548). This switch leaves the circuit closed for

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